

Active Sinica - SMD GNSS Antenna

Part no. M20047-1

RADIONOVA

Product Brief

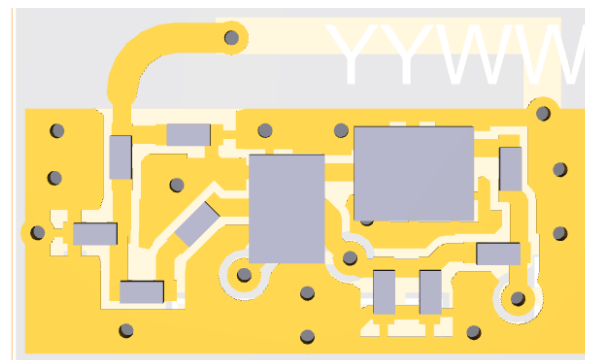
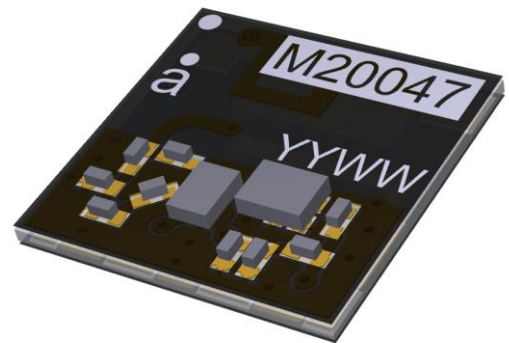
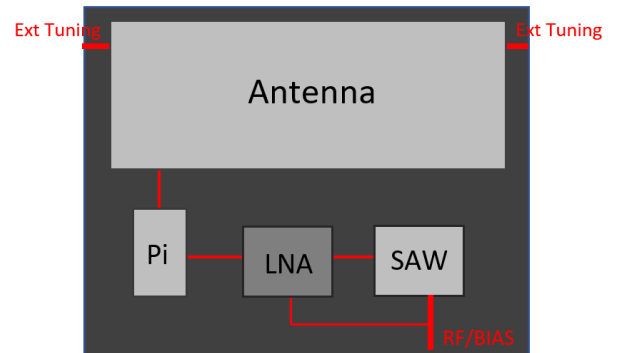
With smaller devices, it can be more difficult to achieve high level performance with GNSS functionality. Antenna's M20047 is an all-in-one active SMD GNSS antenna which can be used to create a compact high-performance design. With this antenna there is no need to design in a second LNA or filtering. This compact antenna design (7mm x 7mm) has the full antenna and front end included, and will boost the signal in positions where reception is poor.

Features

- Very low profile <1.1mm height
- Rigid FR4 construction
- Allows external tuning on host
- SMD
- 1.5-3.3V bias via feed

Applications

- Tracking moving objects
- Sports wearables
- Telematics

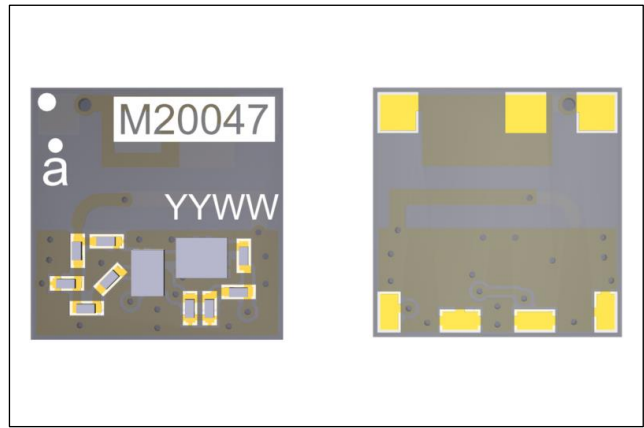


Antenna characteristics:

	Typical
Peak gain	3.00dBi
Average gain	-0.5dBi
Average Efficiency	>60%
Max return loss	<-12dB
Max VSWR	1.40:1

General data:

Part number	M20047
Frequency	1559-1609MHz
Polarization	Linear
Supply Voltage	1.5-3.3V
Operating temperature	-40°C to +85°C
Dimensions	7 x 7 x 1.1 (mm)
Impedance	50ohm
Weight	<1g
LNA Gain (Typ)	19.6dB
LNA used	Infineon
SAW used	Epcos GNSS



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Antennas for Wireless M2M Applications